

HIGH ACCURACY
HIGH SPEED
HIGH RIGIDITY

PRECISION TSUGAMI

*Complete machining of high-precision complicated parts
from a bar stock*

CNC High Precision Automatic Lathe

CH154

Bar work machine with gang type tool slides and 2 spindles

■ **High productivity**

- Pre-finished machining from bar stock and finishing are completed by one machine.

■ **High efficiency**

- Drastically shortening cycle time thanks to overlap the L & R spindles.

■ **High-speed spindle: 15,000min⁻¹**

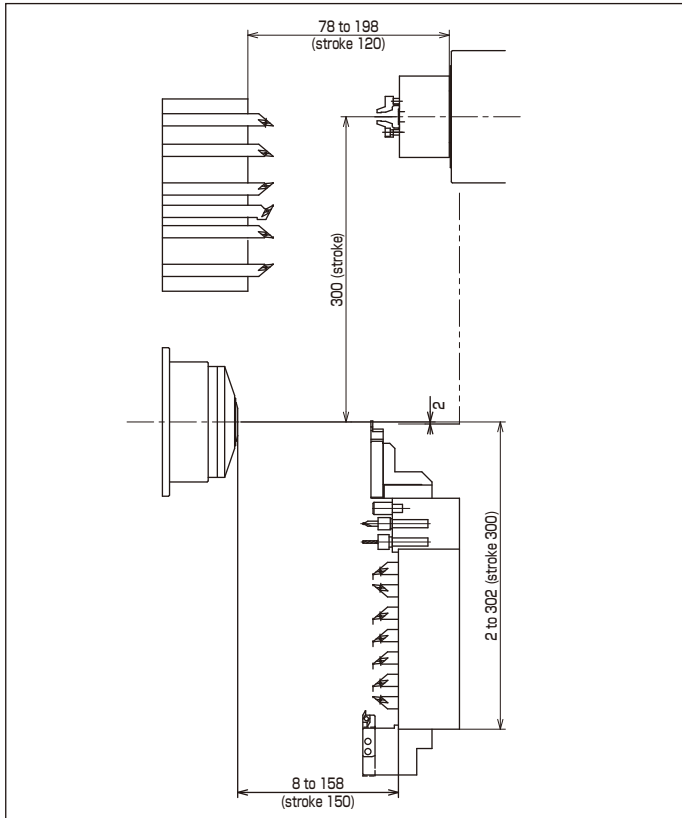
- L spindle: Collet chuck
- R spindle: 3" diaphragm chuck
(Air-tube integrated spindle)



Machine standard specifications

Item		CH154
Spindle	Max. L spindle speed	15,000 min ⁻¹
	Max. R spindle speed	15,000 min ⁻¹
Chuck	L spindle	Collet chuck (up to $\phi 15$)
	R spindle	3" diaphragm chuck
Tool post	Tool post type	Gang type tool post
	XL, XR stroke	300 mm
	ZL stroke	150 mm
	ZR stroke	120 mm
	Rapid traverse rate	24 m/min
	Tool size	12 mm square
Motor	L spindle	1.5/2.2 kW
	R spindle	1.0/1.2 kW
	XL, XR, ZL, ZR axes	0.75 kW
	Coolant pump	1.5 kW
	Spindle cooling oil pump	75 W
Tank capacity	Spindle cooling oil tank	8 L
	Coolant tank	200 L
Machine dimension	Width x depth x height	1,350 mm x 1,365 mm x 1,500 mm
	Machine weight	2,200 kg

Tooling zone



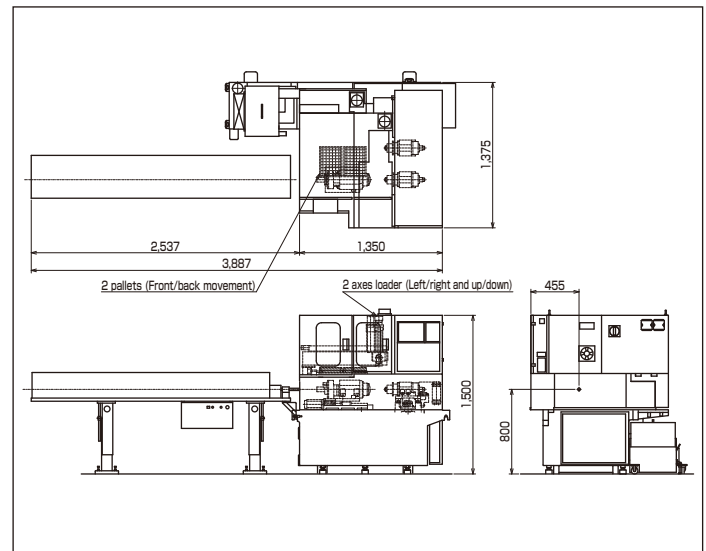
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NC standard specifications

Item	Specifications
NC unit	FANUC 31i-A
Axis name	XL, XR, ZL, ZR
Least input increment	0.01 μm (X: in diameter)
Least command increment	0.01 μm (X: 0.005 μm)
Max. programmable value	± 9 digits
Interpolation method	Linear/Circular
Rapid traverse rate	24 m/min (all axes)
Cutting feedrate	1 to 6,000 mm/min
Feedrate override	0 to 150% in 10% increments
Dwell	G04, 0 to 99999.999
Absolute/Incremental command	X, Z: Absolute U, W: Incremental
Tool offset pairs	32 pairs
Data display	7.2" monochrome LCD
Display language	English (Japanese)
Part program storage size	64 kbytes (equivalent to 160 m in tape length)
No. of registerable programs	63
Auxiliary function	M5-digit
Spindle function	S5-digit
Tool function	T4-digit

Radius designation on arc, Override cancel, Workpiece coordinate system setting, Sequence number search, Machine lock, Dry run, Single block, Self-diagnostic function, Manual pulse generator, Tool offset screen, Chasing function, Memory card interface, Spindle synchronous control

External view



The specifications of this catalogue are subject to change without prior notice.



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